

this normal curve
 time: experimental design

next design;
 time: probability

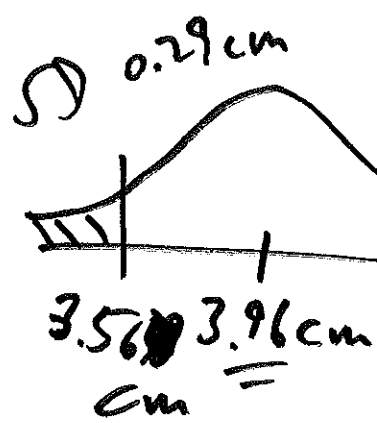
read: (ANS) Oct 15
 DD ~~...~~
 (A) ch. 3, 6;
 DD (B) ch. 6-8
 LN 11.95-118

Q: what % of butterflies had wing length ≤ 3.56 cm?

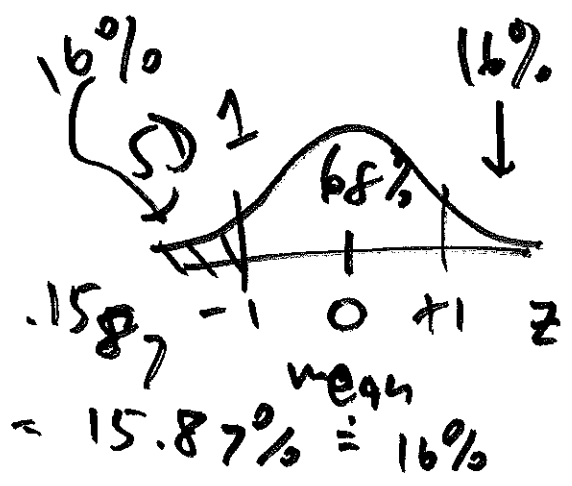
A, exact:

$$\frac{2}{24} = \frac{1}{12} = 8.3\%$$

A, approx.



butterfly wing length

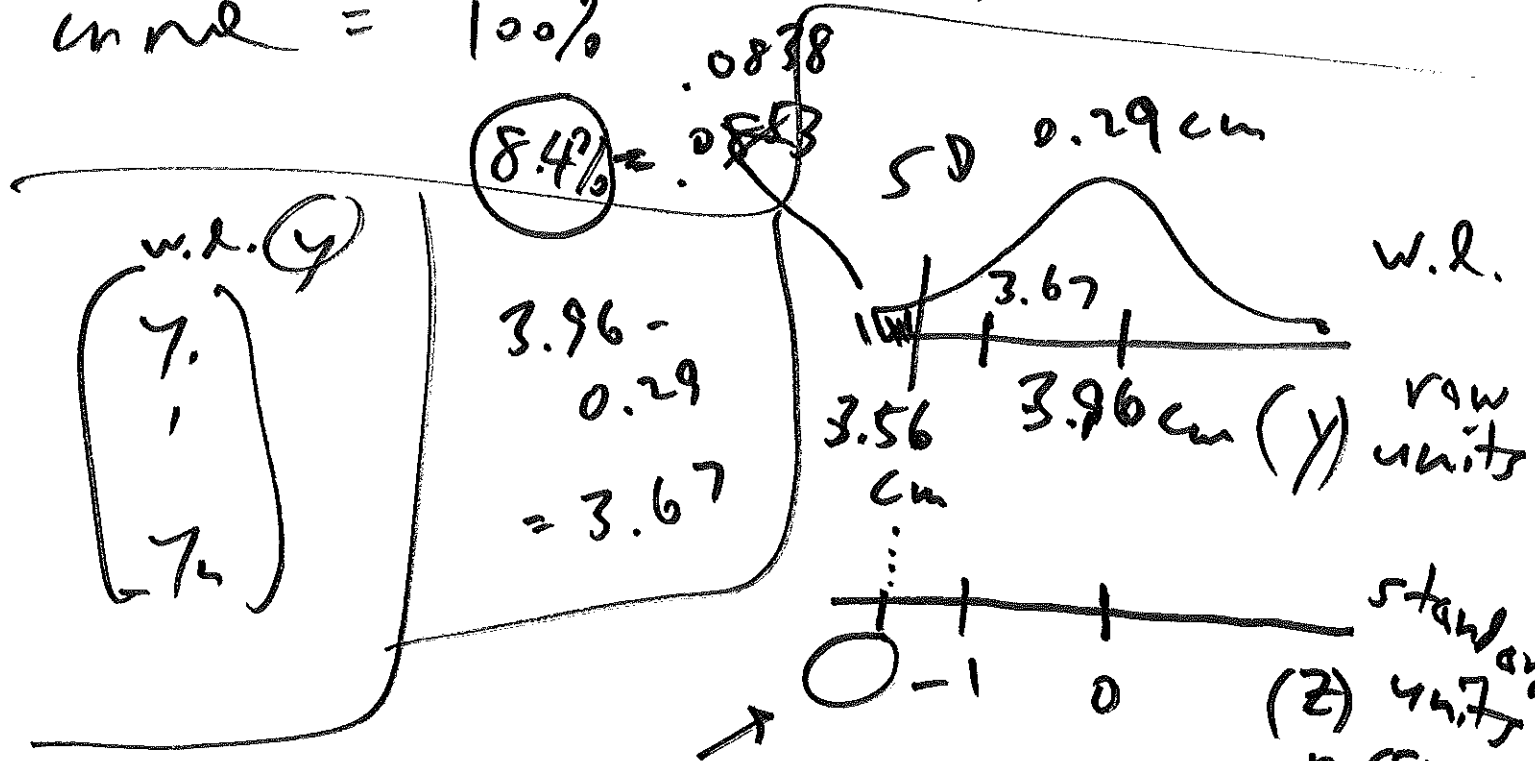


standard normal curve

facts

all normal curves are symmetric around their mean

total area under any normal curve = 100%



$$z = \frac{x - \mu}{SD} = \frac{3.56 - 3.96}{0.29} = -1.38$$

pure units \$

$$SU = \frac{(raw\ units) - mean}{SD}$$

$$z = \frac{y - \bar{y}}{s}$$

conversion to standard units

$$Y = \bar{Y} + z \cdot s$$

converting
to raw units

③

exp.
resp.:

$Y =$ brain
anatomy

cortex
weight
(mg)

